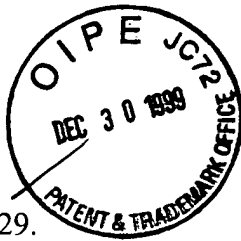


In the Claims

Please cancel claims 25 and 29.

Please amend the claims as follows:



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8. (Amended) A data system for an aircraft, comprising:
a digital flight data acquisition unit in communication with at least one sensor;
a processor in communication with said digital flight data acquisition unit;
a serial card in communication with said processor; and
a plurality of cell channels in communication with said serial card, said cell channels for
transmitting data via a cellular infrastructure after the aircraft has landed.

16. (Amended) The system of claim 15 wherein said means for [sending]
transmitting data includes a processor.

26. (Amended) The method of claim [25] ²⁵ ~~34~~ wherein starting a primary data thread
includes:

- initiating a PPP connection;
- initiating a transfer session;
- starting at least one secondary data thread;
- determining if data remains in the primary data thread;
- sending said data when data remains in the primary data thread;
- determining if data threads are active when no data remains in the primary data thread;

Q3 repeating, when said threads are active, the step of determining if data remains in the primary data thread;
ending said session when no threads are active;
closing said PPP connection; and
exiting starting a primary data thread.

30. (Amended) The method of claim [29] ~~32~~²⁹ wherein initializing a session includes:
allocating buffer space;
sending an initiation session acknowledgment; and
returning to receiving a message.

Q4 31. (Amended) The method of claim [29] ~~32~~²⁹ wherein processing said message when said message is a data message includes:
copying said message to a buffer;
sending a data message acknowledgment; and
returning to receiving a message.

32. (Amended) The method of claim [29] ~~32~~²⁹ wherein processing said message when said message is not an end session includes:
computing a checksum;
determining if said checksum is valid;
saving a buffer to a temporary file;

a4
decrypting said temporary file;
uncompressing said temporary file;
sending an end session acknowledgment; and
returning to receiving a message.

Please add the following new claims: 7

25 --34. A computer-implemented method of transmitting aircraft flight data from an aircraft, comprising:

receiving flight data from a digital flight data acquisition unit;
processing said flight data to prepare said data for transmission; and
transmitting said processed data via a cellular infrastructure after the aircraft has landed,

Q5 wherein processing said flight data includes:

receiving a weight-on-wheels signal;
initiating a data transfer;
compressing said flight data;
encrypting said compressed data;
creating a packet queue;
starting a primary data thread;
waiting a predetermined period of time;
determining if any threads are active;
repeating, when threads are active, the steps of waiting a predetermined period of time and determining if any threads are active; and

exiting processing said flight data when no threads are active.

27/ 25. A computer-implemented method of transmitting aircraft flight data from an aircraft, comprising:

receiving flight data from a digital flight data acquisition unit;

processing said flight data to prepare said data for transmission; and

transmitting said processed data via a cellular infrastructure after the aircraft has landed;

and

receiving said transmitted data at a flight operations center, wherein receiving said

transmitted data includes:

creating a socket;

receiving a message;

determining if said message is an initialization message;

initiating a session when said message is an initialization message;

determining if said message is a data message when said message is not an initialization message;

processing said message when said message is a data message;

determining if said message is an end session when said message is not a data message;

processing said message when said message is an end session; and

repeating, when said message is not an end session message, the step of receiving

a message.--